

### Microservices

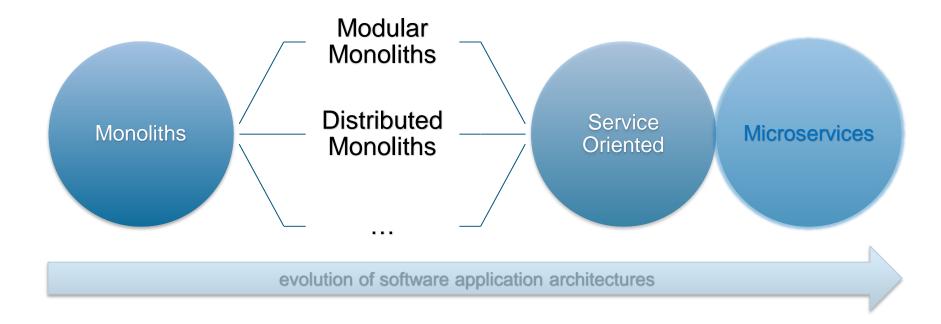
The good, and the not so good...

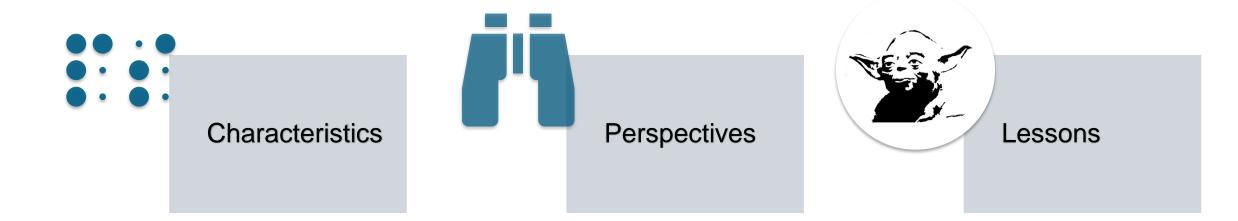
Ramesh Nagamalli, Senior Key Expert, MOM Architecture & Innovation, Siemens Digital Industries Software

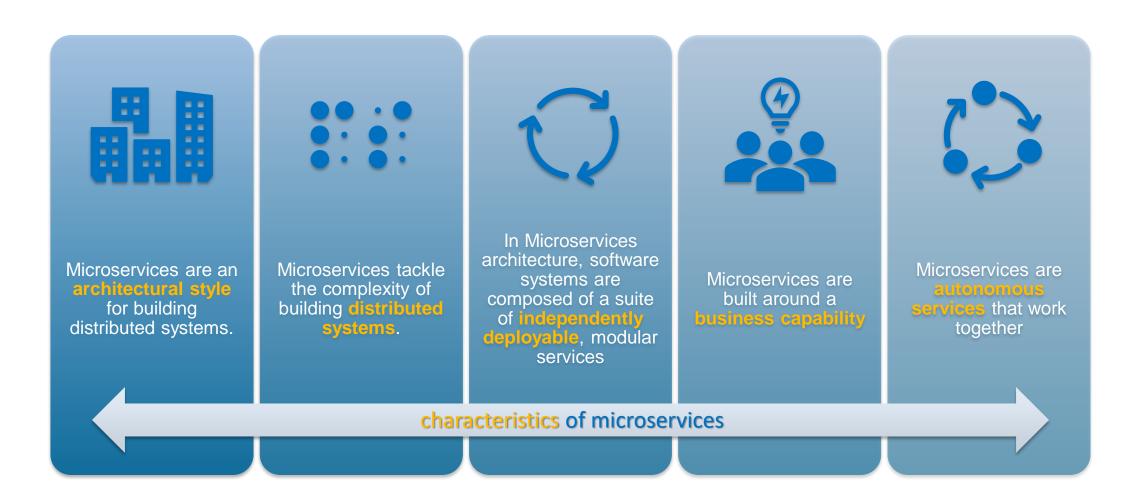
September 2, 2020

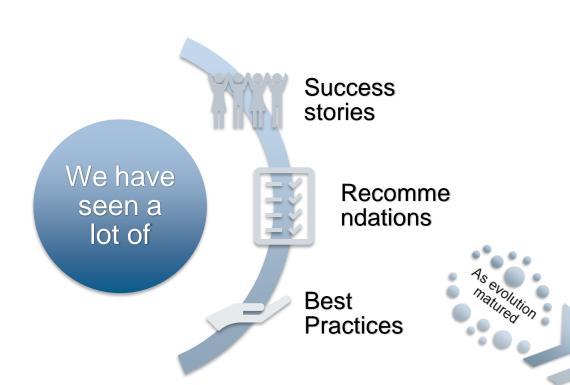
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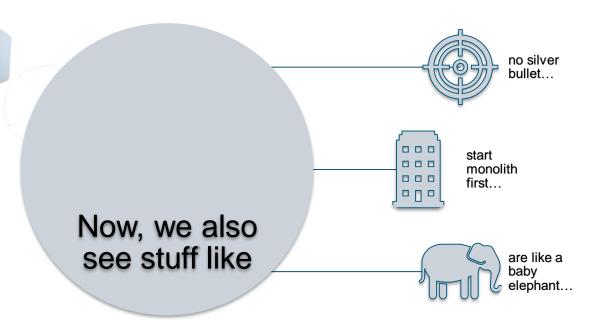










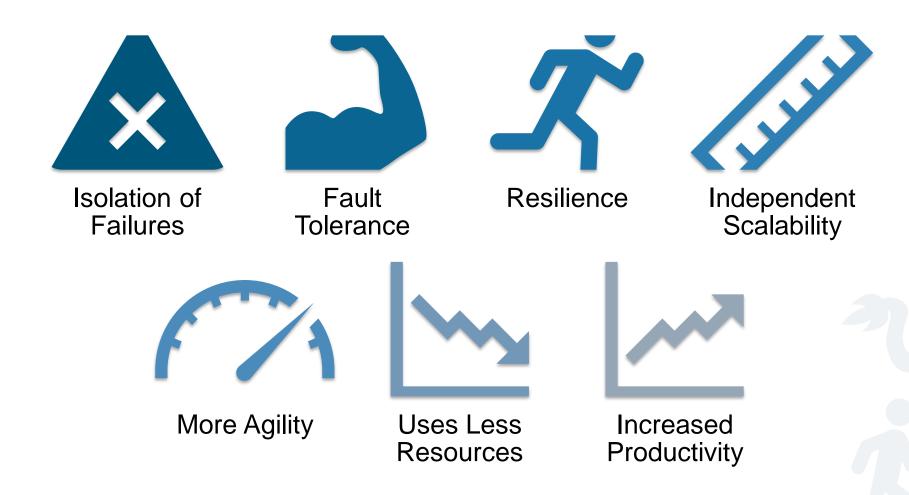






well, how do we process all this? what do we make out of it?





as promised, Microservices do provide





however, there's no free lunch...





Network Management



Data Management



Source Code Management



Integration Testing

the price for the lunch additional challenges



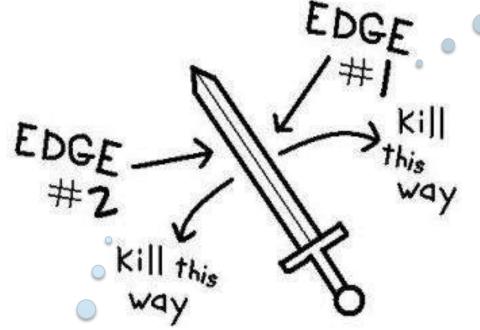
Monitoring and Troubleshooting



Dependency Management



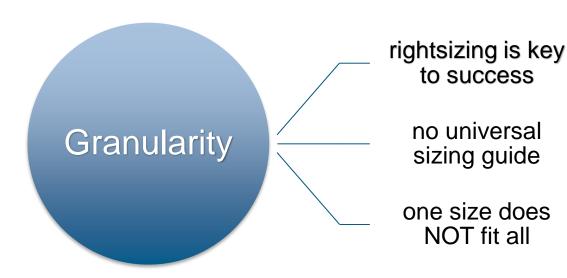




# microservices, the modern double edged sword\*

yet another cutting-edge

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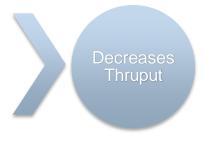




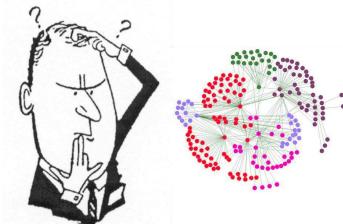




there's a pretty significant cost to having two processes communicate over a network Latency



Main memory reference is about 100 nanoseconds, and a round trip within the same data center, is about 500 microseconds

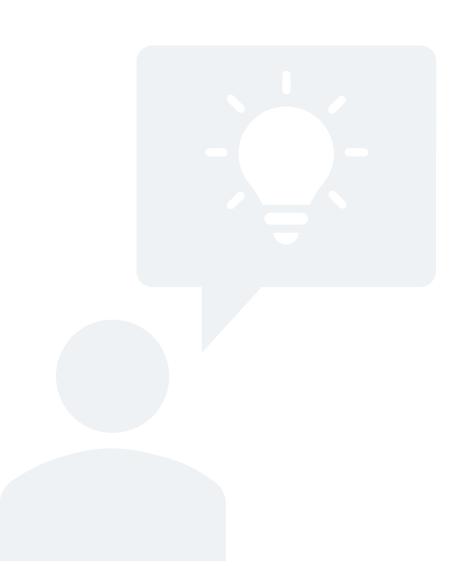


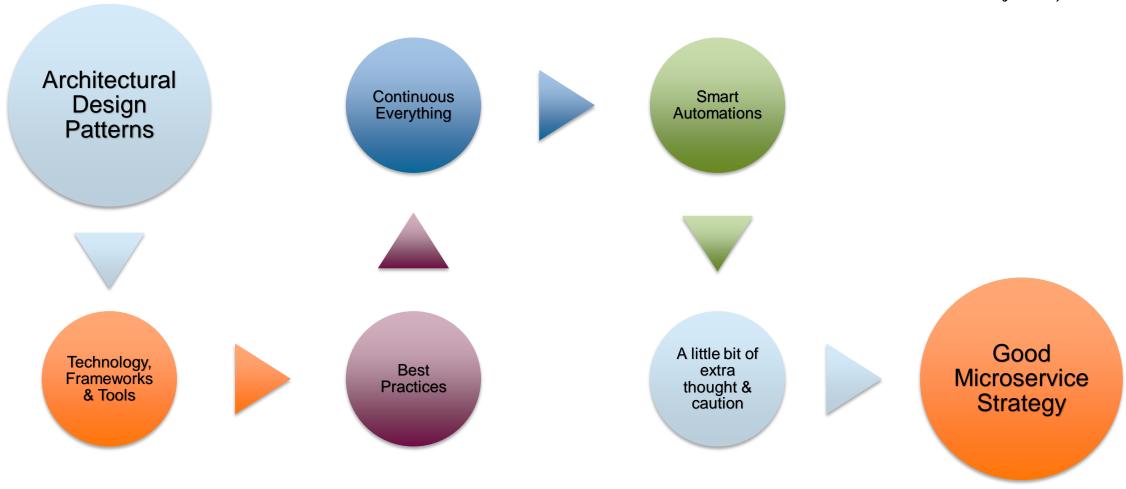
yet another cutting edge...

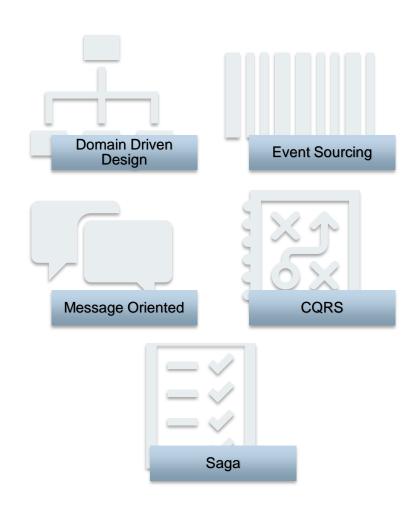
**Operational Complexity** 

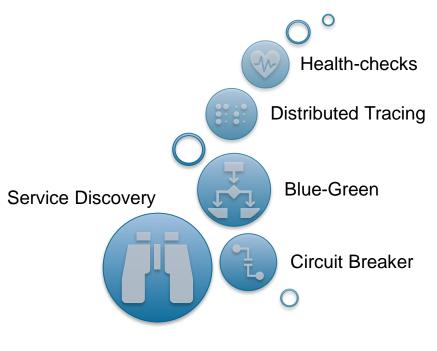


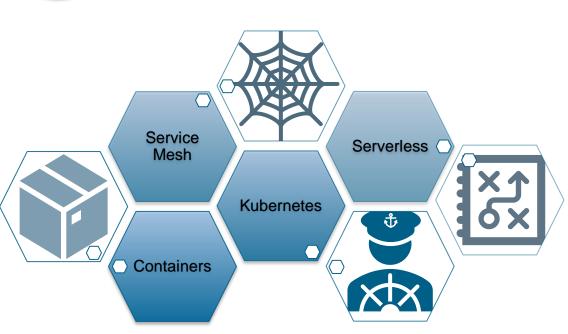
how do we deal with all these challenges?







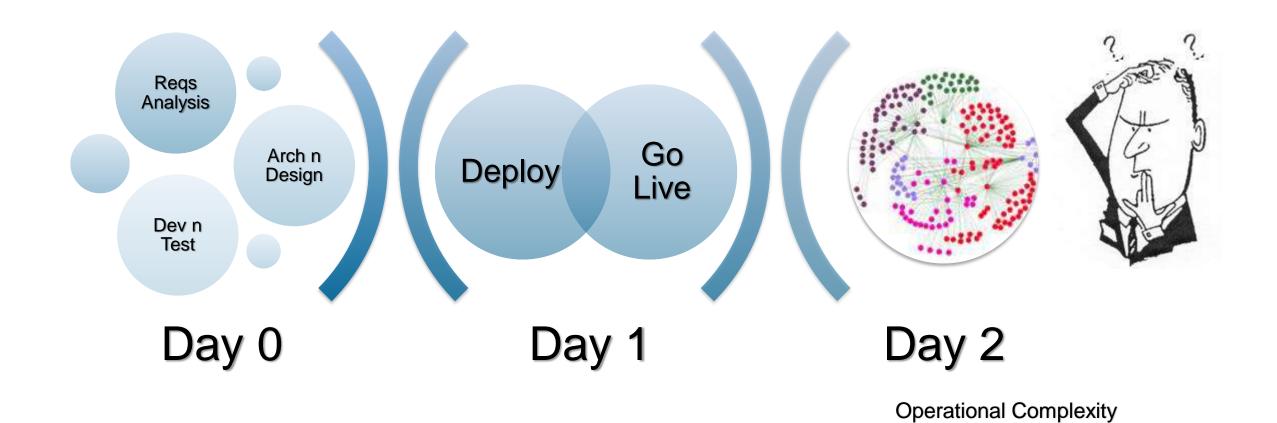




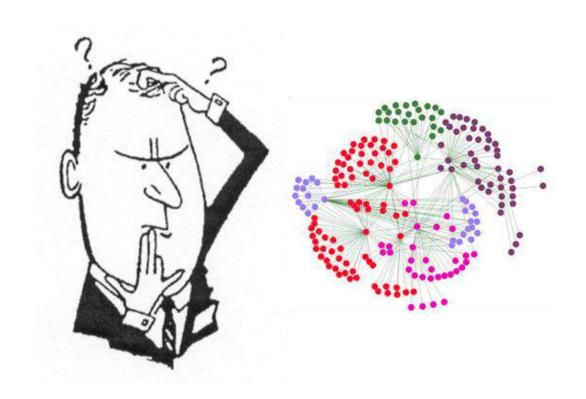
**SIEMENS** 

Ingenuity for life



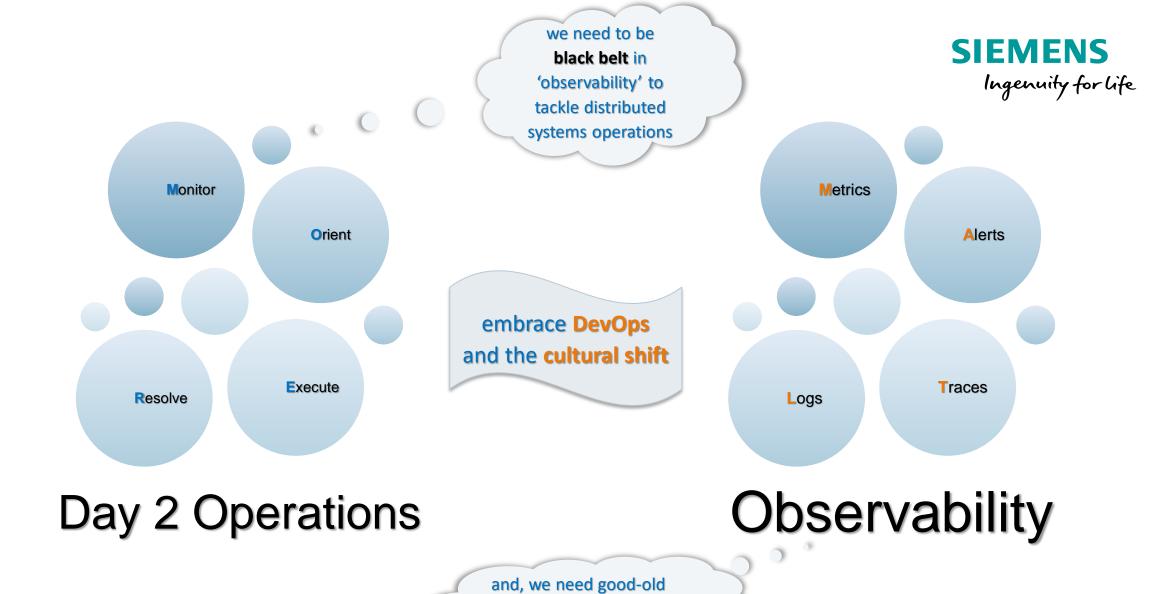






## how do we handle operational complexity?

there is M.O.R.E



'M.A.L.T' for a strong observability stack

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#### Right sizing



Like in real life...moderation is the key to betterment...

#### Quotable Quote



"... if people can't build monoliths properly, microservices won't help" Simon Brown

### SIEMENS Ingenuity for life

loosely coupled you be should, not only appear



may the force be with you...

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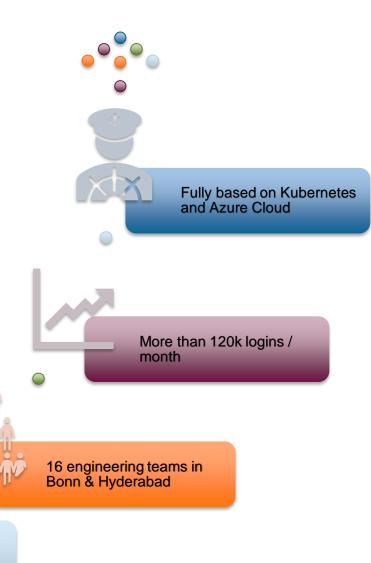


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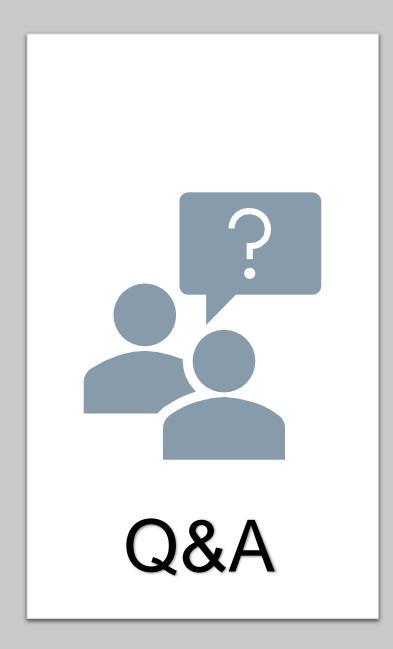
LeanIX has come a long way with Microservices Architecture

PHP-based monolith to >

30 microservices



Upcoming talk will share detailed learnings and outlooks that can for sure inspire larger environments as well...







### Ramesh Nagamalli

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